

From: Kin Yip <kinyip@bnl.gov>
Subject: D0 SAM Shift weekly report (July 3-10, 2007)
To: sam-design@fnal.gov
Cc: Daria Zieminska <daria@indiana.edu>
Date: Mon, 09 Jul 2007 21:04:20 -0400

Report done for Daria:

- No more unresolved issues/tickets after July 1, 2007.
- OSG machines for SAMGrid have had some problems but Parag has helped to deal with/solved them.
- Shifters mostly have reported recocert activities.

From: "Richard St. Denis" <r.stdenis@physics.gla.ac.uk>
Subject: CDF Status, 10-Jul-07
To: sam-design@fnal.gov
Date: Tue, 10 Jul 2007 14:59:28 +0100 (BST)
Reply-to: r.stdenis@physics.gla.ac.uk

o Tues 3-Jul-04
9 dcache cells offline
r-fcdfdata073-1
r-fcdfdata073-2
r-fcdfdata124-1
r-fcdfdata124-2
r-fcdfdata124-3
r-fcdfdata124-4
r-fcdfdata124-5
r-fcdfdata124-6
w-fcdfdata124-7

2:14 am CDT

Dave Berg:

One of the SL8500 robot hands is inoperative. I have paused the LTO3 libraries for both CDF and CMS. I am placing a service call. Details see his report -- still down

User Problem: Turned out to be reading wrong datasets for his purpose and lack of training. Have asked his responsables to look at problems with him before referring it as a system failure.

Problems with DCache servers unable to allocate memory came up and are being solved: see Dave Berg's report

Dbrowsers needed restart: ran out of handles. I thought that this was handled by a crontab

r-fcdfdata022 and 63 are to be retired.
Files that were allocated to them removed and they are marked offline.

User report of problem (sam-it 2841) prestaging zhcs2z for file zz025f01.000lhcs2. Tried to dccp and it took more than 1/2hr but came. Some issues finding the trail from dccp to seeing dcache react to enstore reacting. By the time Dave Berg looked, the file transfer was underway (or complete) as indicated by the date on the file on the target machine. Another random file copied immediately. Decided the problem is resolved but better understanding to see if it is a failure or bottleneck would help.

File does not show up in complete enstore file list, but is in pnfs.

Ongoing issue: apparent overload of Oracle database server coming in spurts. Causing failures in SAM. Expert knows.

Rick

Really, it is the farm station machine that had a load average of 64. Apparently farm monitoring caused the overload.

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From: Arthur Kreymer <kreymer@fnal.gov>
Subject: Minos status 2007 Jul 09
To: sam-design@fnal.gov
Cc: minos_sam_admin@fnal.gov
Date: Tue, 10 Jul 2007 08:51:41 -0500 (CDT)

Minos status 2007 Jul 09

General -

Enstore -

DCache -

ROOT reads are back to within 1/5 of old speed, good enough for now, with
pcanal patch to restore buffering in root 5.14 and head of CVS,
Need backpatch to 5.12 and 5.16
None of this yet uses the new 'vector' I/O preferred by root.

Sue Kasahara benchmarks :

root v5.10/00 with file->UseCache(): 3.9 sec cpu, 6 sec real
root v5.10/00 without file->UseCache(): 3.5 sec cpu, 163 sec real
root v5.12/00 with (or w/o) file->UseCache(): 5.3 sec cpu, 162 sec real
root HEAD with tree->SetCacheSize(50000000);: 4.1 sec cpu, 29 sec real

SAM -

IT 1894 Need 'sam locate' in C++ API

IT 2843 CHILD_BY_NAME selections not effective in all cases

Starting to declare Monte Carlo input files,
need to update mcout handling to retain mc.version.

Oracle -

minosora3 (dev/int) memory parity messages continue ?

need refresh of development from production,
to clear up messages when declaring Monte Carlo data
CLASS SamException.SamExceptions.DbSQLException
INSTANCE INTERNAL ERROR IN DbOracleMessage.convertUniqueConstraint

OPEN ISSUES

IT 1894: sam locate via C++ api, for simple client needs
IT 1979: Compiler warnings from sam_cpp_api
IT 2071: quadratic project startup time growth (from Nov 1 2005)

PLAN -

Migration to 9940B tape can proceed anytime - when ?
Update Minos dbservers and clients to v8

From: Anil Kumar <akumar@fnal.gov>
Subject: Re: SAM Ops Meeting Tomorrow, Tuesday, 9:30am, FCC1
To: sam-design@fnal.gov
Date: Tue, 10 Jul 2007 08:23:59 -0500

D0 :

- July 10th Moving d0ofintl to 3par SAN. 8-10 hours downtime.
August 7th d0ofprdl will be moved to 3par SAN. 8-10 hours downtime.

Alerts :

- Fri Jul 6 07:21:01 CDT 2007
Information for: d0ofprdl

| Owner Object | Type | Extents Used | Extents Allocated | Extents Left |
|--------------|------|--------------|-------------------|--------------|
|--------------|------|--------------|-------------------|--------------|

| | | | | |
|-------------------|-------|------|------|---|
| SAMPRD PF1_UQ1_UK | INDEX | 2096 | 2100 | 4 |
|-------------------|-------|------|------|---|

Action : Increased the next extent to 5.2MB and maxextent to 3100

- v6_4 index on create_date of data_files against d0ofdev1 done
- Service Request with Oracle on Full table scan Vs Index scan on data_files_param_values.
Development is working on Bug Fix. Bug# 5601578 No time estimate yet for bug fix.
SAR# 5837876.993 On May 3, 2007, follow-up with Delivery Manager to find the time estimate for the fix.

CDF :

Alerts :

- CPU usage is very high on cdfofpr2. Users/queries are being tracked. Some users may be swichted to cdf replica. Working with Petar on this. Some SAM queries may use global temporary tables.
- Information for: cdfofpr2

| Owner Object | Type | Extents Used | Extents Allocated | Extents Left |
|--------------|------|--------------|-------------------|--------------|
|--------------|------|--------------|-------------------|--------------|

| | | | | |
|--------------------------------|-------|-----|-----|---|
| SAMPRD DATA_FILES_PARAM_VALUES | TABLE | 396 | 400 | 4 |
|--------------------------------|-------|-----|-----|---|

Action : Increased the max extents to 800

MINOS :

- The motherborad was replaced on minosora3 on Thursday 06/21/2007
This didn't fix the CPU warnings.
Now on June 26, Sysadmin attempted to make the size of dimms same as per consultation
with dl/sun. Also new kernel has been installed. CPU warnings still exist.

- v6_4 index on create_date of data_files against minosdev - done

Thanks,

Anil.

----- Original Message -----

From: "Adam Lyon" <lyon@fnal.gov>
To: <sam-design@fnal.gov>
Sent: Monday, July 09, 2007 10:00 PM
Subject: SAM Ops Meeting Tomorrow, Tuesday, 9:30am, FCC1

> Hi,

>

> We'll have our usual SAM Operations Meeting Tuesday 2007.07.10 at 9:30am

From: David Berg <berg@fnal.gov>
Subject: enstore/dcache report
To: sam-design@fnal.gov
Cc: enstore-admin@fnal.gov
Date: Mon, 09 Jul 2007 19:39:45 -0500 (CDT)

enstore/dcache report

Scheduled Downtimes:

- o CDFen - Thur, Jul 12 (2 hrs)
 - upgrade cdfensrv0 (enstore database server)
- o STKen - Thur, Jul 19
 - dcache - regularize configuration for version 1.7 so RPM-based patches can be properly applied in a timely manner
 - enable gPlazma, if it is working on the test stand

Operations:

- o d0en
 - One LTO2 drive replaced to address regrip problem
 - Barcode replaced on a 9940B tape after robot failed to read it
- o cdfen
 - One LTO3 mover is still down, sent to manufacturer
 - Restored 3 deleted files
- o cdfdca
 - Reconfiguring number of pools on older, large pool nodes
- o findca
 - 5 out of 12 write pools reported offline, 6 pools restarted
 - International Grid Trust Federation (IGTF) distribution of Authority Root Certificates installed on head and door nodes
 - Pools continue to require restarts, though frequency appears to have been diminished by increasing java heap memory size
 - Considering patching write pools, one node at a time, with fix for java heap memory errors; developers still investigating
- o SL8500
 - handbot failed, replaced

Thanks,
David